DDDDDDDDDD UUU UUU MMM MMM PPPPPPPPPPPPP	
DDDDDDDDDDD UUU UUU MMM MMM PPPPPPPPPPPP	PPP PPP
DDDDDDDDDDD UUU UUU MMM MMM PPPPPPPPPPP	PPP PPP
	PPP
	PPP
DDD DDD UUU UUU MMMMMM MMMMMM PPP	
	200
DDD DDD UUU UUU MMM MMM PPP	PPP
DDD DDD UUU UUU MMM MMM MMM PPP	PPP
DDD DDD UUU UUU MMM MMM MMM PPP	PPP
DDD DDD UUU UUU MMM MMM PPPPPPPPPPP	
DDD DDD UUU UUU MMM MMM PPPPPPPPPPPP	
DDD DDD UUU UUU MMM MMM PPPPPPPPPPPP	
DDD DDD UUU UUU MMM MMM PPP	
DDD DDD UUU UUU MMM MMM PPP	
DDD DDD UUU UUU MMM MMM PPP	
DDD DDD UUU UUU MMM MMM PPP	
DDD DDD UUU UUU MMM PPP	
DDDDDDDDDD UUUUUUUUUUUU MMM PPP	
DDDDDDDDDD UUUUUUUUUUUU MMM MMM PPP	
DDDDDDDDDD UUUUUUUUUUUUU MMM PPP	

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	FFFFFFFF FFFFFFFF FF FF FF FF FF FF FF		
	\$				

DU

V

Page

(1)

AUTHOR: Benn Schreiber, Stephen Zalewski CREATION DATE: 22-Jun-1981

DI

```
E 14
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
VO4-000
                                                                                                    VAX-11 Bliss-32 V4.0-742 CDUMP.SRCJDUMPFILE.B32:1
                                                                                                                                              Page
                               109
110
111
   BIND
                               sizetbl = UPLIT(BYTE(9,5,3,11,6,4,12,7,4)) : VECTOR[,BYTE], charsperbyte = UPLIT(BYTE(2,3,3)) : VECTOR[,BYTE], ! Number of ascii chars /byte based on radix
                               offtable = UPLIT(cstring('6XL'), ! FAO control to cstring('6SL'), cstring('6OL')) : VECTOR[,LONG],
                                                                         ! FAO control to print buffer offsets
                               sizetable = UPLIT(BYTE(
                                                                                    Table to round entry's per
                                                                                    line to nearest lower power of two. Max length is 32.
                                                      16.
32.
64.
128)):VECTOR[,BYTE];
```

DI

V

```
F 14
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
VO4-000
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 EDUMP.SRCJDUMPFILE.B32;1
                                                                                                                                                                                      Page
                                  GLOBAL ROUTINE dump$dump_file: NOVALUE=
    14490123456789012345678901234567890123
1449012345678901234566789012345678901234567890123
14490123456789012345678901234567890123
                                   BEGIN
                       This routine is the driver for file dumping.
                                  LOCAL
                                        status : BLOCK[4,BYTE],
bufdesc : BBLOCK[dsc$c_s_bln],
subdesc : BBLOCK[dsc$c_s_bln];
                                                                                                          ! This desc is used to point to ! each individual BLOCK/RECORD in bufdesc
                                   dump$fao_setup();
linesthispage = .dump$gl_lpp;
                                                                                                         ! Set up fao control string ! Force new page
                                  IF .dump$gl_flags[dump$v_header]
                                                                                                         ! If /HEADER specified
                                  THEN
                                         BEGIN
                                         dump$header();
                                                                                                         ! Dump the header
! Force new page
                                         linesthispage = .dump$gl_lpp;
                                         END:
                                     Read and dump the file.
                                  WHILE true DO
                                         BEGIN
                                        status = dump$read(bufdesc);
If .status EQL ss$_endoffile THEN EXITLOOP;
If NOT .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_rnd]
OR .dump$gl_flags[dump$v_records]
                                                                                                                     ! If not disk ! or record mode
                                         THEN
                                              IF .dump$gl_record GEQU .dump$gl_cur_block
THEN
                                               BEGIN
                                                                                                                     ! In range to be dumped
                                                    BEGIN
                                                    If NOT .dump$gl flags[dump$v_records]
   THEN linesthispage = .dump$gl_lpp: ! Force new page
dump$dump_buffer(bufdesc, .status, false); ! Dump entire block
                                               END
                                         ELSE
                                               WHILE .bufdesc[dsc$w_length] GTRU 0 DO BEGIN
                                                                                                                     ! Dump all blocks
                                                    ! Dump a block
```

```
6 14
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
VO4-000
                                                                                                                                             VAX-11 Bliss-32 V4.0-742 CDUMP.SRCJDUMPFILE.B32;1
                                                                                                                                                                                                               (3)
                                                                                                                                                                                                       Page
                                                         bufdesc[dsc$a_pointer] = .bufdesc[dsc$a_pointer] +
    .subdesc[dsc$w_length];
END;
    204
205
206
207
208
                                             END:
                                                                                                                                   DUMP$FILE
\V04-000\
                                                                                                                       .TITLE
                                                                                                                       .PSECT
                                                                                                                                   SPLITS, NOWRT, NOEXE, 2
                                                                                                00000 P.AAA:
                                                                       0B
                                                                             03
                                                                                   05
                                                                06
                                                                                                                       .BYTE
                                                                                                                                    9. 5. 3. 11. 6. 4. 12. 7. 4
                                                                                                00009
0000C P.AAB:
0000F P.AAD:
00013 P.AAE:
00017 P.AAF:
00018
0001C P.AAC:
00028 P.AAH:
0002C P.AAI:
00030 P.AAJ:
00034 P.AAK:
                                                                                         03003
                                                                                                                                    23>16XL1
                                                                                                                       .BYTE
                                                                                                                       .ASCII
                                                                                                                                    <3>\60L\
                                                                               000000000

8 39 03

8 35 03

8 33 03

1 31 04

3 36 03

3 34 03

2 31 04

5 37 03

6 34 03
                                                                                                                       ADDRESS P.AAD.
                                                00000000, 00000000,
                                                                                                                                                P.AAE, P.AAF
                                                                                                00041 P.AAN:
00046 P.AAO:
0004A P.AAP:
                                                                4C
                                                                                                                                    <3>\70W\
                                               ADDRESS P.AAH, P.AAI, P.AAJ, P.AAK, P.AAL, -
P.AAM, P.AAN, P.AAO, P.AAP
BYTE 1, 2, 4, 8, 16, 32, 64, -128
                                                                00000000, 00000000, 00000000, 00000000,
00000000, 00000000, 00000000,
                                                                             04
                                                                10
                                                                      08
                                                                                   02
                                                                                                00074
                                                                                                                       .PSECT
                                                                                                                                   SOWNS, NOEXE, 2
                                                                                                00000 MODEINDEX:
                                                                                                00004 DUMPMODE:
                                                                                                00008 ENTRYSIZE:
                                                                                                OOOOC ENTSPERLINE:
                                                                                                00010 LINESTHISPAGE:
                                                                                                                       .BLKB
                                                                                                00014 DUMPWIDTH:
                                                                                                00018 PLINFAOSTRING:
                                                                                00000028
                                                                                                00040 PLINFADDESC:
                                                                                                                       .LONG
                                                                                                00044 FAOCTRSTRING:
                                                                                                                       ADDRESS PLINFAOSTRING
                                                                                00000000
                                                                                00000028
                                                                                                00070 FAOCTRDESC:
                                                                                                                       .LONG
```

```
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 EDUMP.SRCJDUMPFILE.B32;1
                                                                                                                                                                                                                                                                                          (3)
                                                                   00000000' 00074
                                                                                                                                    .ADDRESS FAOCTRSTRING
                                                                                                              SIZETBL=
CHARSPERBYTE=
                                                                                                                                                                     P.AAB
                                                                                                               OFFTABLE=
                                                                                                                                                                     P.AAC
                                                                                                               FAOTABLE=
                                                                                                                                                                     P.AAG
                                                                                                                                                       P.AAG

DUMP$FAO_LINE, DUMP$HEADER

DUMP$ONE HEADER

DUMP$READ, DUMP$WRITE

SYS$FAO, DUMP$GL_FLAGS

DUMP$GL_OUTDESC

DUMP$GL_IDESC, DUMP$GL_FILE_EFBLK

DUMP$GL_IP, DUMP$GL_IFAB

DUMP$GL_IP, DUMP$GL_CUR_BLOCK

DUMP$GL_MAX_BLOCK

DUMP$GL_WIDTH, DUMP$GL_NUMBER

DUMP$GL_WIDTH, DUMP$GL_NUMBER

DUMP$GL_RECORD, DUMP$GL_TIME

DUMP$_LBN, DUMP$_BN

DUMP$_LBN, DUMP$_VBN

DUMP$_IBN, DUMP$_RECNO

DUMP$_HEADER
                                                                                                               SIZETABLE=
                                                                                                                                                                     P.AAQ
                                                                                                                                     .EXTRN
                                                                                                                                      .EXTRN
                                                                                                                                     .EXTRN
                                                                                                                                      EXTRN
                                                                                                                                      EXTRN
                                                                                                                                      EXTRN
                                                                                                                                      EXTRN
                                                                                                                                      EXTRN.
                                                                                                                                      EXTRN
                                                                                                                                      .EXTRN
                                                                                                                                      .EXTRN
                                                                                                                                      .EXTRN
                                                                                                                                      .EXTRN
                                                                                                                                     .EXTRN
                                                                                                                                    .PSECT
                                                                                                                                                         $CODE$, NOWRT, 2
                                                                                                                                                       DUMPSDUMP_FILE. Save R2,R3,R4,R5,R6,R7,R8
DUMPSDUMP_BUFFER, R8
DUMPSGL_IFAB, R7
DUMPSGL_RECORD, R6
DUMPSGL_FLAGS, R5
LINESTHISPAGE, R4
DUMPSGL_LPP. R3
#16, SP
#0, DUMPSFAO_SETUP
DUMPSGL_LPP, LINESTHISPAGE
#6, DUMPSGL_FLAGS, 1$
#0, DUMPSHEADER
DUMPSGL_LPP, LINESTHISPAGE
DUMPSGL_LPP, LINESTHISPAGE
DUMPSGL_LPP, LINESTHISPAGE
DUMPSGL_RECORD
DUMPSGL_FLAGS+1, 3$
DUMPSGL_FLAGS+1, 3$
DUMPSGL_RECORD, DUMPSGL_MAX_BLOCK
8$
BUFDESC
                                                                                01FC 00000
9E 00009
9E 00010
9E 00017
9E 00015
9E 00025
C2 00025
FB 00036
E1 00039
FB 00030
DO 00044
DO 00047
DO 00047
DO 00047
DO 00050
E1 00050
PF 00055
                                                                                                                                      .ENTRY
                                                                                                                                                                                                                                                                                      0260
                                            MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
SUBL2
CALLS
                                                                                                                                                                                                                                                                                      0272
0273
0276
0279
0280
0288
0288
        00000000V
                                                                                                                                    MOVL
                                                                                                                                    BBC
        0000000G
                                                                                                                                    CALLS
                                                                                                                                    MOVL
                                                                                                                                    INCL
                                     50
A0
A5
00
                                                                                                                                    MOVL
                                                                                                                                    BBC
BBC
        000000006
                                                                                                                                    CMPL
                                                                                              00056 28:
                                                                                                                                    BGTRU
                                                                                                                                                         BUFDESC
#1. DUMP$READ
RO. STATUS
STATUS. #2160
                                                                                                                                                                                                                                                                                      0293
                                                              80
                                                                                                                                    PUSHAB
       00000000G
                                                                                                                                    CALLS
                                                                                                                                    MOVL
        00000870
                                                                                                                                                                                                                                                                                      0294
                                                                                                                                    CMPL
                                                                                                                                    BEQL
                                                                                                                                                         DUMPSGL_IFAB, RO
#4. 67(RO). 48
#5. DUMPSGL_FLAGS+1. 68
DUMPSGL_RECORD, DUMPSGL_CUR_BLOCK
                                                                                              00075
00078
00070
00082
00089
                                                                                                                                                                                                                                                                                      0295
                                                                                                                                    MOVL
                                                                                                                                    BBC
BBC
                                                                                                                                    CMPL
BLSSU
        0000000G
                                      00
03
                        01
                                      A5
                                                                                                                                                          #5, DUMP$GL_FLAGS+1, 5$
                                                                                                                                                                                                                                                                                      0302
                                                                                                                                    BBS
```

DUMPSFILE V04-000			I 14 16-Sep-1984 01:29:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:21:36 [DUMP.SRCJDUMPFILE.B32;1	Page 7 (3)
		64	63 DO 00090 7E D4 00093 5\$: CLRL -(SP) 52 DD 00095 PUSHL STATUS 0 AE 9F 00097 PUSHAB BUFDESC 03 FB 0009A CALLS #3, DUMP\$DUMP_BUFFER	0303
		68 10 08	03 FB 00097 PUSHAB BUFDESC 03 FB 0009A CALLS #3, DUMP\$DUMP_BUFFER A8 11 0009D BRB 1\$ B AE B5 0009F 6\$: TSTW BUFDESC A3 13 000A2 BEQL 1\$	0298 0308
	0200	50 08 8F	B AE 3C 000A2 BEQL 15 50 B1 000A8 MOVZWL BUFDESC, RO 50 B1 000AB CMPW RO, #512 05 1B 000AD BLEQU 7\$	0310
	04	50 0200 6E AE 0C	0 8F 3C 000AF MOVZWL #512, RO 50 80 00084 7\$: MOVW RO, SUBDESC C AE DO 000B7 MOVL BUFDESC+4, SUBDESC+4 63 DO 000BC MOVL DUMP\$GL_LPP, LINESTHISPAGE 7E D4 000BF CLRL -(SP) 52 DD 000C1 PUSHL STATUS	0311 0312 0313
	08 00	68 52 AE 50 AE	63 D0 00090 7E D4 00093 5\$: CLRL -(SP) 52 DD 00095 D AE 9F 00097 D A8 11 00090 D BRB 1\$ D AE BS 0009A D BRB 1\$ D AE BS 0009A D BRB 1\$ D BR	0314 0316 0318 0308 0321

; Routine Size: 218 bytes. Routine Base: \$CODE\$ + 0000

faoctrdesc.

Page

DUP VO4	P\$F [ -000	LE													1	14 6-Sep-198 6-Sep-198	34 01:29 34 12:21	:18 VAX-11 Bliss-32 V4.0-742 :36 [DUMP.SRCJDUMPFILE.B32;1	Page (4)
	267 268 270 271 273 275 277 277 278 278 281 283			033 033 033 033 033 033 033 033 033 033	88	2 !	Set S\$FAI	ntspantspantspantspantspantspantspantspa	AO co	ne * .mode ontre	einde	ring	to t			r partia			
P.A	24	21	24	20	20	4.9		24	20	10		20	24	24	00030		.PSECT	SPLITS, NOWRT, NOEXE, 2	
SA	21	21	21	20	29	43	41	21	28	21	20	46	21 00000 00000	21 40 18	0007C 0008B 00094	P.AAS: P.AAR:	.ASCII	\!!!ZL(!AC) !!!ZLAF !!!AC\ 24	
21	20	29 21	43	41	21	28	4C 46	5A 41	21 40	21 5A	21	21 21	00000 21 21	21 21 43	00098 0009C 000AB	P.AAU:	.ADDRES	24 IS P.AAS \!!!!!!ZL(!AC) !!!!!ZLAF !!!!!AC\	• • • • • • • • • • • • • • • • • • •
												0	00000	-	000BA 000BB 000BC 000C0	P.AAR: P.AAU: P.AAT:	.BLKB	1 31 S P.AAU	
																		\$CODE\$,NOWRT,2	
										56 55 54 53	00000 00000 00000	0000°	00 00 EF EF	9E 9E 9E 9E	00000 00002 00009 00010 00017 0001E	DUMPSFAC	SETUP: .WORD MOVAB MOVAB MOVAB MOVAB CLRL	Save R2.R3.R4.R5.R6 SYS\$FAO. R6 DUMP\$GL_FLAGS. R5 SIZETBL. R4 MODEINDEX. R3 ENTRY DUMPMODE	0322
						0:	5		80	A3 65 63		04	03 03 00 02	D4 D0 E1 D0	00020 00023 00027		TIOTE		0331 0333 0333 0335 0337
						0:	5	1	01	63 A5 63			2 7	11 E1	0002B 0002E 00030	1\$:	BBC MOVL BRB BBC	#3, DUMPSGL FLAGS, 18 #3, MODEINDEX 38 #2, DUMPSGL FLAGS+1, 28 #6, MODEINDEX 38	0337 0338 0340
													06 02 63	11 04	00035 00038 0003A	28: 38:	CLKL	#6. MODEINDEX 3\$ MODEINDEX	•
						0	C		01 08 04	A5 A3			06 02 63 06 01 63	D4 E1 D0 D0	0003A 0003C 00041 00045 00049	58:	BBC MOVL MOVL INCL	MODEINDEX #6. DUMP\$GL FLAGS+1, 48 #2. ENTRYSIZE #1. DUMPMODE MODEINDEX	0342 0345 0348 0349

ם

DUMPSFILE VO4-000						18	-Sep-	1984 01:29 1984 12:21	18 VAX-11 Bliss-32 V4.0-742 EDUMP.SRCJDUMPFILE.B32;1	Page 10 (4)
	08	08	65 A3	8	11 E1	00051	48:	BRB BBC MOVL	S\$ #2, DUMP\$GL FLAGS, 5\$ #1. ENTRYSIZE #2. DUMPMODE #2, MODEINDEX #5, DUMP\$GL WIDTH, R1 SIZETBL, RO amodeIndex[RO], RO ENTRYSIZE, RO RO, R1 #1, R1, ENTSPERLINE ENTSPERLINE	0345 0352 0355 0356 0357
		04	A3 63	0	DO	00055		MOVL	#2. DUMPMODE #2. MODEINDEX	0356 0357
	51	000000006	63 00 50 50	00 B340	96	0005C 00064 00067	5\$:	MOVL ADDL2 SUBL3 MOVAB MOVZBL ADDL2 DIVL2 BICL3	SIZETBL, RO SMODEINDEXCROL. RO	; 0363
			50 51	08 B340	CO	0006C		DIVLE	ENTRYSIZE, RO RO, R1	
	OC A3	00000040	51 8F	OC AS	CE	00073		BICL3 CMPL	CITIOI CILCAINE A WORK	0365
		000000006	00000	000+ 8F	DO	08000 58000 88000		PUSHL	6\$ #<< <dump\$ facility@16="">+4384&gt;+4&gt; #1 LIBSTOP</dump\$>	0366
OC A3	74 A442	00000000	00	ŏ	E0	0008F	6\$:	CMPL BLEQ PUSHL CALLS CMPZV BGTR INCL	#<< <dumps facilitya16="">+4384&gt;+4&gt; #1. LIB\$STOP #0. #8. SIZETABLE[ENTRY], ENTSPERLINE 7\$</dumps>	0368
				52	D6	00099 0009B		INCL	ENTRY	0369
		ОС	A3 52 51 50	73 A44 0C A 6 6 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	94 D0 94	0009D 000A3 000A7 000AA	7\$:	BRB MOVZBL MOVL MOVL MOVZBL ADDL2 MULL2 MOVAB MOVW DIVL3 PUSHL MULL3 PUSHL PUSHL PUSHAB	SIZETABLE-1[ENTRY], ENTSPERLINE ENTSPERLINE, R2 MODEINDEX, R1 SIZETBLER1], R0 ENTRYSIZE, R0 R2, R0 8(R0), DUMPWIDTH #40, FAOCTRDESC #3, R1, R0 OFFTABLE[R0] ENTRYSIZE, R2, -(SP) FAOCTRDESC FAOCTRDESC FAOCTRDESC FAOCTRDESC P.AAR	0371 0373
		14	50 50 50 A3 A3 51		9E	000B2		MULL2 MOVAB	R2. R0 8(R0), DUMPWIDTH	0776
	50	70	51	08 AC	C7	000RA 000BE 000C2		DIVL3	#3, R1, R0	0375 0383
	7E		52	1C A440 08 A3 50 A441	C5	000CB		MULL3 PUSHL	ENTRYSIZE, R2, -(SP) FAOTABLE[R1]	0382
				70 A3	9F	000CF 000D1		PUSHAB	R2 FAOCTRDESC	0382 0381 0380 0376
			0	70 A3	9F	000D4 000D7 000DB		PUSHAB PUSHAB	P.AAR #7, SYS\$FAO	0377
	50		66 51 51	63	DÖ	000DE 000E1		MOVL	MODE INDEX, R1	0394
				4 - 4 4 4 4	DD	000E5		PUSHL	OFFTABLE[RO]	0707
	7E	00	A3	08 A 50 A44 40 A 40 A	DD 9f	000E9 000EF 000F3		MOVL DIVL3 PUSHL MULL3 PUSHAB PUSHAB PUSHAB	MODEINDEX, R1 #3, R1, R0 OFFTABLE[R0] ENTRYSIZE, ENTSPERLINE, -(SP) FAOTABLE[R1] PLINFAODESC PLINFAODESC	0393 0392 0388
			0	40 A3 0BC C4	9F	000F6		LASUVD	F. 441	0389
			66	06	F 6	000F9 000FD 00100		CALLS	#6, SYS\$FAO	0395

```
M 14
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
V04-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742
LDUMP.SRCJDUMPFILE.B32;1
                                   ROUTINE dump$put_header(bufdesc,header): NOVALUE=
BEGIN
MAP
   bufdesc : REF BBLOCK:
                       IF .dump$gl_flags[dump$v_records]
                                                .linesthispage + 4 GEQ .dump$ql_lpp
                                         ELSE
                                               true
                                         END
                                   THEN
                                         dump$new_page()
                                   ELSE
                                         dump$blank_line();
                                    IF NOT .header
                                                                                                                      ! Not dumping header
                                         THEN dumps bn

ELSE IF .BBLDCR[dumpsgl_ifab[fab$l_dev], dev$v_for]

THEN dumps lbn

ELSE dumps_vbn),
                                               *B'0001*
                                               #B'0001',
.dump$gl_record
.bufdesc[dsc$w_length])
                                   ELSE
                                         dump$output_getmsg(dump$_header, %B'0001');
                                   dump$blank_line();
                                   END:
                                                                                 000C 00000 DUMPSPUT_HEADER:
                                                                                                                        Save R2.R3
DUMPSOUTPUT GETMSG, R3
DUMPSBLANK [INE, R2
#5, DUMPSG[ FLAGS+1, 1
#4, LINESTHISPAGE, R0
                                                                                                              WORD
                                                                                                                                                                                             0396
                                                         53
52
00
                                                                                        00002
00009
00010
                                                              00000000V
                                                                                                             MOVAB
                                                                              EEF54090300AB0
                                                                                   9E
E1
C1
D1
                                                                                                             MOVAB
                                         000000006
000000006
                                                                                                                                                                                             0404
                                                                                                             BBC
                                                                                         00018
                                                                                                              ADDL3
                                                                                        00018
00020
00027
00029
00030
00032
00035
00039
                                                                                                             CMPL
                                                                                                                               DUMP$GL_L P
                                         00000000v
                                                                                                              CALLS
                                                                                                                               DUMPSNEW_PAGE
                                                                                                                                                                                             0411
                                                                                                             BRB
                                                                                    FB
ESC
DD
                                                                                                                                                                                             0413
0416
0428
0427
                                                                                                             CALLS
BLBS
MOVZWL
                                                                                                                         #0. DUMP$BLANK_LINE
HEADER, 9$
aBUFDESC, -(SP)
DUMP$GL_RECORD
                                                              08
04
00000000G
                                                                                                             PUSHL
```

DUMPSFILE V04-000			N 14 16-Sep-1984 01:29:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:21:36 [DUMP.SRC]DUMPFILE.B32;1	Page 12 (5)
	08 000000006 00	000000006	01 DD 00043 PUSHL #1 05 E1 00045 BBC #5, DUMP\$GL_FLAGS+1, 48 8F DD 0004D PUSHL #DUMP\$_RECND	0418
	09 43 50 50	00000000G	00 D0 00055 48: MOVL DUMP\$GL IFAB, RO 04 E0 0005C BBS #4, 6?(RO), 5\$ 8F D0 00061 MOVL #DUMP\$_BN, RO	0421
		000000006	A0 E9 0006A 5\$: BLBC 67(R0), 6\$  8F D0 0006E MOVL #DUMP\$_LBN, R0  07 11 00075 BRB 7\$	0423
	50 63	00000000	2B 11 00053 00 D0 00055 4\$: MOVL DUMP\$GL IFAB, RO 04 E0 0005C BBS #4, 6?(RO), 5\$ 8F D0 00061 MOVL #DUMP\$_BN, RO 14 11 00068 A0 E9 0006A 5\$: BLBC 67(RO), 6\$ 8F D0 0006E MOVL #DUMP\$_LBN, RO 07 11 00075 BRB 7\$ 8F D0 00077 6\$: MOVL #DUMP\$_VBN, RO 50 DD 0007F 7\$: PUSHL RO 04 FB 00080 8\$: CALLS #4, DUMP\$OUTPUT_GETMSG 08 11 00085 9\$: PUSHL #1 8F DD 00087 PUSHL #DUMP\$ HEADER 02 FB 0008D CALLS #2, DUMP\$OUTPUT_GETMSG 00 FB 00090 10\$: CALLS #0, DUMP\$BLANK_[INE]	0421 0419 0418 0430
	63 62	0000000G	01 DD 00085 98: PUSHL #1 8F DD 00087 PUSHL #DUMP\$ HEADER 02 FB 0008D CALLS #2, DUMP\$OUTPUT_GETMSG 00 FB 00090 10\$: CALLS #0, DUMP\$BLANK_[INE 04 00093 RET	0430 0432 0433

; Routine Size: 148 bytes, Routine Base: \$CODE\$ + 01DB

```
B 15
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
V04-000
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 [DUMP.SRC]DUMPFILE.B32:1
                                                                                                                                                                                                                           (6)
                                        GLOBAL ROUTINE dump$new_page: NOVALUE=
BEGIN
                           Output a new page
                                        linesthispage = 0;
dump$write($descriptor(%CHAR(%O'014')));
If .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
OR_NOT .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_fod]
                                                                                                                              Reset count of lines/page
                                                                                                                             Output a form feed
                                         THEN
                                               BEGIN
                                                                                                                           ! Output "dump of device"
                                               dump$output_getmsg(dump$ dumpodev, XB'0001'
                                                      dump$gl_idesc,
dump$gq_time);
                                                END
                                        ELSE
                                               BEGIN
                                                                                                                          ! Output "dump of file"
                                               dump$output_getmsg(
dump$ dumpofil,
XB'0001'
                                                    dump$gl_idesc,
dump$gg_time):
.BBLOCKEdump$gl_ifab[fab$l_dev], dev$v_rnd]
                                                      dump$output_getmsg(
dump$ fildnt,
%8'0001',
                                                                                                                          ! File ID and size
                                                             .dump$gl_inam[nam$w_fid_num] + .dump$gl_inam[nam$b_fid_nmx]^16,
.dump$gl_inam[nam$w_fid_seq],
.dump$gl_inam[nam$b_fid_rvn],
.dump$gl_file_efblk,
.dump$gl_file_hiblk);
                                               END:
                                         dump$blank_line();
                                        END:
                                                                                                                              PSECT
                                                                                                                                           $PLIT$, NOWRT, NOEXE, 2
                                                                                                     000C4 P.AAW:
000C5
000C8 P.AAV:
                                                                                                                              -BLKB
                                                                                                                                           <12>
                                                                                     00000001
                                                                                                                              . LONG
                                                                                     00000000
                                                                                                      000CC
                                                                                                                              .ADDRESS P. AAW
                                                                                                                              .PSECT $CODE$, NOWRT, 2
                                                                                                     00000
00009
00010
                                                                                                                                           DUMPSNEW PAGE, Save R2,R3,R4,R5
DUMPSGL IDESC, R5
DUMPSGQ TIME, R4
DUMPSGL IFAB, R3
                                                                                                                                                                                                                         0434
                                                                                                                              .ENTRY
                                                                       00000000G
00000000G
00000000V
                                                                                          00
00
00
EF
                                                                                                                              MOVAB
                                                                                                                              MOVAB
                                                                                                                              MOVAB
                                                                                                                                           DUMPSOUTPUT_GETMSG, R2
                                                                                                                              MOVAB
```

VO

DUMP\$FILE V04-000					16-	5  Sep-1984   01:29  Sep-1984   12:21	:18	VAX-11 Bliss-32 V4.0-742 [DUMP.SRC]DUMPFILE.B32;1	Page 14 (6)
	00000000	- 00	00000000	F F	D4 0001E 9F 00024	CLRL PUSHAB CALLS	P.AA	THISPAGE	: 0439 : 0440
	00000000	50		53	FB 0002A	MOVE	DUMP	OUMP\$WRITE GL_IFAB, RO	0441
	11 41	05 A0		54	E8 00034 E0 00038 DD 0003D 11 DD 0003F	MOVL BLBS BBS PUSHL PUSHL PUSHL PUSHL CALLS	67(R) #6, R4 R5	SGL_IFAB, RO )) -1\$ 55(RO), 2\$	0442 0445
		62	00000000G 8	3F   3F	DD 00041 DD 00043 FB 00049	PUSHL PUSHL CALLS RRR	#1 #DUMI #4,	P\$ DUMPODEV DUMP\$OUTPUT_GETMSG	0441
				55	DD 0004E 21	BRB PUSHL PUSHL PUSHL PUSHL CALLS	#4, 1 3\$ R4 R5 #1	DE DUMPOETI	0441 0453
	35 43	62 50 A0		)4 53 04	FB 0005A D0 0005D E1 00060	MUVL	DUMP:	OUMPSOUTPUT GETMSG GL IFAB, RU S7(RO), 3\$	0458
		50	000000006 000000006	00	DD 00054 FB 0005A DO 0005D E1 00060 DD 00065 DD 0006B DD 00071 9A 00078	PUSHL PUSHL MOVI	DUMPS DUMPS	GL_FILE_HIBLK  GL_FILE_EFBLK  GL_INAM, RO	0467 0466 0465
	50	7E 51 50 50	26 24 29	AO AO AO	31 1111111111111	PUSHL PUSHL MOVL MOVZBL MOVZWL MOVZBL ASHL PUSHAB	38 (RI 36 (RI 41 (RI #16, (RO)	P\$ DUMPOFIL DUMPSOUTPUT GETMSG GL IFAB, RO 57(RO), 3\$ GL_FILE_HIBLK GGL_FILE_EFBLK GGL_INAM, RO 0), -(SP) 0), -(SP) 0), R1 0) R0 R0 R0, R0	0464 0463
		43	000000006	)1 BF	9A 00084 78 00088 9F 0008C DD 0008F DD 00091 FB 00097	PUSHL	#1		0460
	00000000	62 / EF		00	FB 00097 FB 0009A 31 04 000A1	CALLS CALLS RET	#0.	PS FILDNT DUMPSOUTPUT GETMSG DUMPSBLANK_CINE	0470 0471

; Routine Size: 162 bytes, Routine Base: \$CODE\$ + 026F

```
D 15
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMP$FILE
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 CDUMP.SRCJDUMPFILE.832;1
                                                                                                                                                                                                          Page
                                       GLOBAL ROUTINE dump$output_getmsg(messageid,messageflags,args): NOVALUE=
     BEGIN
                                          Routine to do a $GETMSG and then FAO and output it.
                                          Inputs:
                                                                              id of message
flags for GETMSG
first of n args
                                                    messageid
                                                    messageflags
                                       LOCAL
                                             status,
outbuf : BBLOCK[dump$c_maxlisiz],
outbufdesc : BBLOCK[dsc$c_s_bln],
faoctrbuf : BBLOCK[dump$c_maxlisiz],
faoctrdesc : BBLOCK[dsc$c_s_bln];
                                      CH$FILL(0,dsc$c_s_bln,faoctrdesc);
CH$FILL(0,dsc$c_s_bln,outbufdesc);
faoctrdesc[dsc$w_length] = dump$c_maxlisiz;
faoctrdesc[dsc$a_pointer] = faoctrbuf;
outbufdesc[dsc$w_length] = dump$c_maxlisiz;
outbufdesc[dsc$a_pointer] = outbuf;
                                       status = $GETMSG(
                                             msgid=.messageid.
msglen=faoctrdesc.
                                              bufadr=faoctrdesc,
                                       flags=.messageflags);
IF NOT .status
                                       THEN
                                             SIGNAL_STOP(dump$_facility^16 + shr$_badlogic + sts$k_severe);
                                       status = $FAOL(
                                             ctrstr=faoctrdesc,
                                              outbuf=outbufdesc.
                                              outlen=outbufdesc.
                                           prmlst=args);
NOT .status
                                       THEN
                                              SIGNAL_STOP(dump$_facility^16 + shr$_badlogic + sts$k_severe);
                                       dump$put_line(outbufdesc);
END;
                                                                                                                         .EXTRN SYSSGETMSG, SYSSFAOL
```

56 000000006 00 9E 00003 5E FEE8 CE 9E 00003 .ENTRY DUMPSOUTPUT GETMSG, Save R2,R3,R4,R5,R6
MOVAB LIBSSTOP, R6
MOVAB -280(SP), SP

: 0472

DI

DUMP\$FILE				E 15 16-Sep-1984 01:29:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:21:36 [DUMP.SRC]DUMPFILE.B32;1	Page 16 (7)
	08	00	6E	00 2C 0000E MOVC5 WO, (SP), WO, WB, FADCTRDESC	: 0491
	08	00	6E	00 2C 00014 MOVC5 #0, (SP), #0, #8, OUTBUFDESC	0492
		04 FF74 FF78	6E 84 AE 08 CD 84 CD FF7C	00 2C 0000E MOVCS WO, (SP), WO, W8, FADCTRDESC 00 2C 00014 MOVCS WO, (SP), WO, W8, OUTBUFDESC CD 00019 8F 9B 0001C MOVZBW W132, FAOCTRDESC AE 9E 00020 MOVAB FAOCTRBUF, FAOCTRDESC+4 8F 9B 00025 MOVZBW W132, OUTBUFDESC CD 9E 0002B MOVAB OUTBUF, OUTBUFDESC+4 7E D4 00032 CLRL -(SP)	0493 0494 0495 0496 0503
		00000000G	08 08 00 04 00 52	AC DD 00034 PUSHL MESSAGEFLAGS AE 9F 00037 PUSHAB FAOCTRDESC AC DD 0003D PUSHL MESSAGEID 05 FB 00040 CALLS #5. SYS\$GETMSG	
			09 000000001	50 DO 00047 MOVL RO, STATUS 52 E8 0004A BLBS STATUS, 1\$ 8F DD 0004D PUSHL #<< <dumps_facility@16>+4384&gt;+4&gt;</dumps_facility@16>	0504 0506
			66 FF74 FF74 OC	CD 9F 0005D PUSHAB OUTBUFDESC	0513
		0000000G	00 52 09 00000000	50 DO 0006B MOVL RO, STATUS 52 E8 0006E BLBS STATUS, 2\$ 8F DD 00071 PUSHL #<< <dump\$ facility@16="">+4384&gt;+4&gt;</dump\$>	0514 0516
		00000004	66 FF74	01 FB 00077 CALLS #1, LIB\$STOP CD 9F 0007A 28: PUSHAB OUTBUFDESC 01 FB 0007E CALLS #1, DUMP\$PUT_LINE	0519
		0000000v	Ef	01 FB 0007E CALLS #1, DUMPSPUT_LINE 04 00085 RET	0520

; Routine Size: 134 bytes, Routine Base: \$CODE\$ + 0311

UMPSFILE 04-000		F 15 16-Sep-1984 01:29:18 VAX-11 Bliss-1 14-Sep-1984 12:21:36 [DUMP.SRC]DUM	32 V4.0-742 Page 17 PFILE.832;1 (8)
413 414 415 416 417 418 419	0521 0522 0523 0524 0525 0526	GLOBAL ROUTINE dump\$blank_line: NOVALUE= BEGIN  Write blank line to listing file. dump\$put_line(\$descriptor('')); END;	•
		.PSECT \$PLIT\$,NOWRT,NOEXE,	2
		00000000 00000 P.AAY: .BLKB 0 00000000 00000 P.AAX: .LONG 0 .ADDRESS P.AAY	*
		.PSECT \$CODE\$,NOWRT,2	
		00000000	ve nothing : 0521 : 0520
Routine Size:	16 by	ytes. Routine Base: \$CODE\$ + 0397	

D

DUMPSFILE VO4-000		G 15 16-Sep-1984 01:29:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:21:36 [DUMP.SRC]DUMPFILE.B32;1	Page 18 (9)
421 422 423 424 425 426 427 428 429 430 431 432 433	0528 0529 0530 0531 0533 0534 0535 0536 0537 0538 0540 0541	GLOBAL ROUTINE dump\$put_line(desc): NOVALUE= BEGIN  This routine forces a page break if the lines per page is about to be exceeded, provided that the device is a disk.  If .linesthispage GEQ .dump\$gl_lpp	
		000000000 00	0528 0534 0535 0537 0540

; Routine Size: 48 bytes, Routine Base: \$CODE\$ + 03A7

```
DUMP$FILE
V04-000
                                                                     16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
                                                                                               VAX-11 Bliss-32 V4.0-742 EDUMP.SRCJDUMPFILE.B32;1
                                                                                                                                          (10)
                         GLOBAL ROUTINE dump$dump_buffer(bufdesc,status,header): NOVALUE=
  BEGIN
                 This routine does all the work of dumping the buffer.
                              bufdesc : REF BBLOCK[dsc$c_s_bln]:
                              buffer = .bufdesc[dsc$a_pointer] : VECTOR[,BYTE];
                         LOCAL
                              tempouffer : BBLOCK[512],
tempdesc : BBLOCK[dscSc_s_bln],
tempfaobuf : BBLOCK[max_fao_size],
additional,
                              padbytes,
                              bufferpointer,
                              faopointer.
                              number,
                              bytesperline, bytesleft,
                              entsinbuf:
                          faopointer = faoctrdesc:
                                                                                      ! Assume full line
                         dump$put header(.bufdesc, .header);
IF NOT .status
                         THEN
                              BEGIN
                              dump$output_getmsg(.status, %B'1111');
dump$blank_line();
                                                                                      ! Put out error status
                         IF NOT .header
AND .dump$gl_flags[dump$v_file_header]
AND .bufdesc[dsc$w_length] EQL_512
                              If dump$one_header(.bufdesc[dsc$a_pointer])
                                  RETURN:
                         ! Local index number
                                                                                        If /NUMBER not used,
                                                                                        start each at zero
                          WHILE .entsinbuf GTR 0 DO
                              BEGIN
IF .bytesleft LSSU .bytesperline
                                  SYSSFAO(plinfaodesc, tempdesc, tempdesc, entsinbuf);
                                                                                                                ! Set up fao with # of entri
```

```
I 15
16-Sep-1984 01:29:18
14-Sep-1984 12:21:36
DUMPSFILE
VO4-000
                                                                                                             VAX-11 Bliss-32 V4.0-742 EDUMP. SRCJDUMPFILE. B32;1
                                       ! Use this fao control strin
                                                                                                                                   Set output length to defau
                                                                                                                                   format the output line
                                          Now that the partial line is ready to be written, suppress any
                                          leading zeros.
                                          NOTE: Due to the fact that RMS does reads on WORD offsets, the first leading byte of zeros will not be replaced if the dump is in
                                                 block mode and ends up on a byte offset.
                                       additional = 0:
                                       padbytes = .dumpwidth - .dump$gl_outdesc[dsc$w_length];
IF NOT .dump$gl_flags[dump$v_decimal]
                                                                                                                       ! Calculate padding (word offset)
! If HEX or OCTAL dump
                                       THEN
                                            BEGIN
                                                                                                                         calculate further padding if neces find additional offset
                                            If (additional = .bytesleft MOD .entrysize) GTR 0
THEN additional = (.entrysize - .additional) *
                                                                                                                         Customize it to type of dump
                                                                         .charsperbyte[.modeindex/3] + 1;
                                            padbytes = .padbytes + .additional;
END;
                                       Move blanks to pad areas
                                                                                                                         Set output length to
                                                                                                                         device type.
                                  ELSE
                                       BEGIN
                                       bufferpointer = buffer[.number];
dump$gl_outdesc[dsc$w_length] = .dump$gl_width;
dump$fao_line(.bufferpointer,.entsperline,.entrysize,
                                                                                                                         Dump full line
                                                                                                                         Set output length to default value
                                                                                                                      ! Format the output line
                                                  .dump$gl_number,.entsinbuf,.dumpmode,.faopointer,dump$gl_outdesc);
                                       END:
                                  dump$put_line(dump$gl_outdesc);
number = .number + .bytesperline;
                                                                                                            ! Put line out to device ! Calculate next index
                                   IF .dump$gl_flags[dump$v_number]
                                                                                                                       ! If /NUMBER qualifier used
                                       dump$gl_number = .dump$gl_number + .bytesperline
                                                                                                                       ! then keep cumulative index,
                                  dump$gl_number = .number;
entsinbuf = .entsinbuf - .entsperline;
bytesleft = .bytesleft - (.entsperline*.entrysize);
END;
                                                                                                                       ! else make index local
                                                                                                                         Update # of entry's in buffer
                                                                                                                       ! Calculate how many bytes left in b
                              END:
```

PUSHL

ENTSPERLINE

DUMPSFILE V04-000	K 15 16-Sep-1984 01:29:18 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:21:36 [DUMP.SRC]DUMPFILE.B32;1 (1	22
7E 56		
	35 00000000	
OC AE	000000006 00 00000000° EF BO 00165 MOVW DUMPWIDTH, DUMPSGL_OUTDESC 06	
	00000000G 00 00000000G 00 B0 00178	53 54 55 56
	000000006 00 08 FR 001A9 CALLS #8 DUMPSFAO LINE	
	09 00000000G 00	
	00000000G 00	

; Routine Size: 496 bytes. Routine Base: \$CODE\$ + 03D7

DUMPSFILE VO4-000 VAX-11 Bliss-32 V4.0-742 EDUMP.SRCJDUMPFILE.B32;1 0650 1 END 0651 0 ELUDOM 545 .EXTRN LIB\$STOP PSECT SUMMARY Name Bytes Attributes NOVEC. WRT. RD .NOEXE.NOSHR. LCL. NOVEC.NOWRT. RD .NOEXE.NOSHR. LCL. NOVEC.NOWRT. RD .EXE.NOSHR. LCL. REL. REL. REL. CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) SOWNS SPLITS SCODES Library Statistics Symbols -----Pages Processing file Total Percent Loaded Mapped Time \_\$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 581 00:00.7 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:DUMPFILE/OBJ=OBJ\$:DUMPFILE MSRC\$:DUMPFILE/UPDATE=(ENH\$:DUMPFILE) 1479 code + 336 data bytes 00:14.7 00:58.9 : Size: Run Time: Elapsed Time: 00:58.9 Lines/CPU Min: 2658 Lexemes/CPU-Min: 23897 Memory Used: 152 pages Compilation Complete

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